

**BY ORDER OF THE COMMANDER
DAVIS-MONTHAN AIR FORCE BASE**



AIR FORCE MANUAL 91-201

**AIR COMBAT COMMAND
Supplement**

**DAVIS-MONTHAN AIR FORCE BASE
Supplement
08 AUGUST 2016**

Safety

EXPLOSIVES SAFETY STANDARDS

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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(Maj Ben M. Rudolphi)

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AFMAN 91-201, *Explosives Safety Standards*, 12 January 2011 Incorporating Change 1, 22 June 2012 and AFMAN 91-201_ACC SUP_I, 3 January 2013, is supplemented as follows: It establishes a central source for explosives safety criteria; it identifies hazards and states safety precautions and rules when working with explosives. This base supplement applies to all host and tenant units involved in explosives operations of any kind at Davis-Monthan AFB, referenced throughout as DMAFB. This base instruction applies to Air National Guard (ANG) units operating on DMAFB. This base instruction applies to Air Force Reserve Command (AFRC) units operating on DMAFB. Ensure that all records created as a result of processes prescribed in this publication are maintained IAW Air Force Manual (AFMAN) 33-363, Management of Records, and disposed of IAW Air Force Records Information Management System (AFRIMS) Records Disposition Schedule (RDS). Contact supporting records managers as required. Refer recommended changes and questions about this publication to the Office of Primary Responsibility (OPR) using the AF Form 847, *Recommendation for Change of Publication*; route AF Form 847s from the field through the appropriate functional chain of command.

SUMMARY OF CHANGES

This document is substantially revised and must be completely reviewed. Major changes include: Documentation of annual depth checks for ECMs; coordination of events that take place inside an explosive clear zone; 162nd ACA Detachment arm/de-arm procedures; time limit for munitions temporarily placed at an aircraft parking spot.

3.14. Place explosives in containers prescribed in the item technical order or Special Packaging Instruction (SPI) only. Changing the prescribed container may affect the hazard class of the ammunition and explosives (AE) being stored.

3.14.1. Items that are required to be stored in an operationally configured state, where the hazard class and/or compatibility group changes, must be designated on the AF 2047, *Explosives Facility License*, and outlined in the remarks section.

5.13.3.2. All testing and repairs will be done by qualified personnel if physical damage has occurred to the system.

5.21.1. All grounding mediums will be bonded by exothermic welds or compression type splices.

5.21.3. Users are responsible for completing or scheduling with 355th Civil Engineering Squadron (CES) and documenting scheduled maintenance for grounding systems in accordance with AFI 32-1065, *Grounding Systems*, Table 1, rows 12a-12f, as applicable.

5.58.1. Annually check the depth of the earth cover on ECM's to ensure it is at least 2 feet. ECM's with a suitable material finish (e.g., geotextile, gunite, asphalt) do not require a depth check as long as there are no signs of the earth covering washing out from underneath the suitable material. Documentation of inspection will be maintained at the unit.

7.2.1.1. An electronic copy of the instruction will be supplied to 355th Fighter Wing Weapons Safety (SEW) after final approval by the unit commander.

7.2.1.2. Locally written instructions will be routed through all required DMAFB agencies prior to 355 FW/SEW review. Any questions concerning appropriate agencies for routing contact 355 FW/SEW office for assistance. 355 FW/SEW review must be accomplished before commander's approval and implementation. The instruction will be considered in "final draft" prior to 355 FW/SEW approval.

7.2.1.2.1. **(Added)** Units assigned to the 563rd Rescue Group (RQG) will first coordinate locally written instructions through 563 RQG/SEW prior to submitting to 355 FW/SEW.

7.2.1.2.2. **(Added)** Units assigned to 309th Aerospace Maintenance and Regeneration Group (AMARG) will first coordinate locally written instructions through 309 AMARG/SEW prior to submitting to 355 FW/SEW.

7.2.1.2.3. **(Added)** Air National Guard (ANG) DMAFB units of the 162nd Fighter Wing's Operation Snowbird (OSB) and Aerospace Controlled Alert (ACA) Detachment will first coordinate locally written instructions through 162 FW/SEW office prior to submitting to 355 FW/SEW.

7.2.1.2.4. **(Added)** Units assigned to the 943rd Rescue Group (RQG) will first

coordinate locally written instructions through 943 RQG/SEW prior to submitting to 355 FW/SEW.

7.4. Safety briefings will also include evacuation assembly point. Explosives operations will terminate anytime visitors are present. Visitors are individuals whose duties are not directly related to the explosives operation. Provide a safety briefing to casual personnel prior to conducting or restarting explosives operations. Casuals are individuals whose duties require a presence relating to the operation or area. **NOTE:** Visitors include CE contractors doing building repair, commanders/first sergeants checking troop welfare, and distinguished visitors (DVs) touring facilities; casuals are work area supervisors, Quality Assurance, or Safety personnel observing operations.

7.9.1. All 355 FW and tenant unit personnel who handle explosives on DMAFB must have a valid and current initial/refresher explosives safety training date. Units are responsible for training personnel and maintaining documentation. Refer to AFI 91-202 for additional information.

7.9.12. **(Added)** Magazines placed on the ground at aircraft parking spots with chaff/flare cartridges installed will be positioned on their side to prevent damage to the end caps or retainer plates and will be pointing in a safe direction away from personnel and equipment. At no time will the empty cartridges from the chaff/flare magazines be used as finger holds.

7.9.13. **(Added)** If a MK-66 rocket motor is found with a punctured outer aluminum seal, the outer seal will be removed to allow inspection of the inner seal and grounding wire. If the inner seal and grounding wire are undamaged, the rocket motor can be considered serviceable as long as all other rocket inspection criteria are met. If either the inner foil is damaged or the grounding wire is broken, a ground emergency will be declared and Explosives Ordnance Disposal (EOD) notified.

7.26.2.2. Only EOD will provide all initial training on ground burst simulators (GBS) and smoke-producing munitions (smokes) at DMAFB.

7.26.2.2. 1 Personnel receiving initial/refresher GBS/Smoke training will be issued an AF Form 483, Certificate of Competency by EOD with expiration/refresher training due date. Each individual unit is responsible for tracking the need for refresher training, and maintains a current roster of authorized personnel.

7.26.3. GBS and smokes will be initiated only in areas approved by 355 FW/SEW. GBS and smokes will not be initiated within 10 feet of any vegetation or combustible materials.

7.26.4. Initiate GBS inside a 50 gallon barrel, three stacked tires, or other approved means to control fragmentation. Visual inspect barrel for wear to ensure integrity of item, prior to initiation of GBS. Simulators initiated on approved EOD ranges are exempt from this requirement.

7.28.4. Prior to conducting any Military Working Dog (MWD) explosives training, the 355 SFS/S3D will contact 355 FW/SEW at 228-6397/6398 (cell 909-0317), Fire Dispatch at 228- 4757, and BDOC at 228-3200/5131. 355 SFS/S3D personnel will adhere to all safety requirements in this chapter, Chapter 12, DoD 6055.09-STD, *DoD Ammunition*

and Explosives Safety Standards, paragraph C9.8.18, and AFI 32-202 *Military Working Dog Program* while conducting training operations.

7.31. Holding Area Munitions (HAMS) Operations.

7.31.1. **(Added)** Building 42199 is the sited flight line Munitions Holding Area for DMAFB. See [Table 7.1](#) for sited NEWs.

Table 7.1. NEWs for Facility 42199

Facility	HD 1.1	HD 1.2.1	HD 1.2.2	HD 1.2.3	HD 1.3	HD 1.4
42199	0	4,000 ≤212	20,000	(08) 20,000 ≤212	50,000	50,000

7.36.1. Notify Munitions Control to request permission for overnight storage of munitions in an operating location. Munitions Control will coordinate with Munitions Flight Chief/Officer in Charge for approval.

8.4. Units transporting explosives off base by Government Owned Vehicle used in the performance of their mission will:

8.4.1. **(Added)** Ensure the explosive cargo is properly secured prior to movement. Users will obtain necessary assistance from Surface Cargo Movements for securing loads.

8.4.2. **(Added)** Ensure arrangements for an escort have been made, if required by classification.

8.4.3. **(Added)** Ensure DMAFB Fire Emergency Services (FES) and Base Defense Operations Center (BDOC) are notified of outbound explosives shipment departure from the Munitions Storage Area (MSA) and route of travel. **NOTE:** The driver must provide Surface Cargo Movements a highway driving route plan from point of origin to destination, which will be filed with the station file shipping documents.

8.4.4. **(Added)** Provide Surface Cargo Movements with DD 1149, *Requisition/Invoice Shipping Document*, including the proper shipping name, hazard class/division (HC/D), NEW, and the *Shipper's Declaration of Dangerous Goods* form well in advance of the date of movement for preparation of DD 2890, *DoD Multimodal Dangerous Goods Declaration* and DD 626, *Motor Vehicle Inspection (Transporting Hazardous Materials)*, for HC/D 1.3 and above.

8.4.5. **(Added)** Hazardous Material Drivers Certification. IAW CFR 49, part 383.3(c), drivers transporting hazardous material in GOVs are exempt from having HAZMAT endorsement on their driver's license and must be in uniform when operating the vehicle. Their license, AF Form 2293, USAF Motor Vehicle Operator Identification Card, must reflect the exact type of vehicle qualified on and used for transporting the hazardous material. They must have DD Form 2890 in their possession at all times, and DD 626, if required.

8.4.6. **(Added)** Ensure the individual who signs the shipping manifest and prepares the shipper's declaration of dangerous goods has attended the Hazardous Material Technical Specialist Instruction Course instructed by 355th Logistics Readiness Squadron (LRS) IAW AFMAN 24- 204 (I), *Preparing Hazardous Materials for Military Air Shipments*,

paragraph A25.3.2.1, and is authorized in writing by their commander to certify hazardous cargo IAW paragraph A25.3.2.1.

8.12. Explosives routes on DMAFB are designated on the D-8 Installation Explosives Map. 355 FW/SEW will ensure D-8 maps are posted at the Base Defense Operations Center (355 SFS/BDOC), Readiness Flight (355 CES/CEX), Maintenance Operations Center (MOC), Emergency Communications Center (ECC), MSA, EOD, and 355 FW/SEW.

8.12.1. **(Added)** The primary route for explosives transportation depicted on the D-8 map will be adhered to at all times. **EXCEPTION:** EOD, emergency responders, Military Working Dog (MWD), movements inside the MSA, and movements to/from explosives licensed locations may use any route necessary to support mission requirements. Any deviation from the primary route must be coordinated through Munitions Control prior to the change. If alternate routing is required, notify 355 FW/SEW at 228-6397/6398.

8.12.2. **(Added)** All on-base explosives movements will maintain radio communications with an applicable controller, such as MOC, Munitions Control, or Transportation Dispatch.

8.12.3. **(Added)** Incoming/outgoing explosives routes on DMAFB will conform to those routes outlined on the D-8 map. The inspection location for these shipments is inside and adjacent to the South Wilmot gate (Gate 29B). Deviations must be coordinated with 355 FW/SEW prior to use. This does not apply to Department of Energy (DoE) shipments desiring Safe Haven.

8.13.1. **(Added)** For explosives shipments destined for Aerospace Maintenance and Regeneration Group (AMARG), AMARG will:

8.13.1.1. **(Added)** Meet the transportation vehicle inspector at the South Wilmot gate (Gate 29B), assist in the inspection, and escort carrier to Building 7101 for off-loading.

8.13.1.2. **(Added)** Off-load HC/D 1.1 items at the Site 5 railhead on Navajo Road, Bldg 89001.

8.13.1.3. **(Added)** Off-load the carrier and escort the driver to the appropriate base exit.

8.13.1.4. **(Added)** Ensure expedited attention is provided to these carriers to prevent detention or demurrage charges.

8.13.2. **(Added)** 355 LRS Deployment and Distribution Flight will:

8.13.2.1. **(Added)** Ensure all commercial vehicles shipping explosives conform to explosives transportation requirements, including vehicle placards as outlined in CFR Title 49.

8.13.2.2. **(Added)** Complete DD Form 626, *Motor Vehicle Inspection (Transporting Hazardous Materials)*, and effect distribution IAW DoD 4500.9 R.

8.13.2.4. **(Added)** Notify DMAFB FES, Command Post, and 355 SFS upon arrival of explosives shipments to DMAFB, and inform these agencies of the route of travel

and final destination. Notify them of the start and stop time and notify DMAFB FES of any change to the fire/hazard symbols at the final destination.

8.13.2.5. **(Added)** Notify Munitions Control at 228-8708 or AMARG at 228-8777/8301 of the approximate time of vehicle arrival at the MSA. The primary inspection point for all incoming vehicles transporting explosives is inside the South Wilmot gate (Gate 29B). Shipments under duress or in a medical emergency may use any other gate.

8.13.2.6. **(Added)** During the Surface Cargo Movements vehicle inspection, declare a **“suspect load”** for problems of a suspicious nature such as load seals and numbers not matching, seal numbers different than the shipper advised, suspicious damage to the truck, expired drivers’ licenses and/or driver and license do not match. Immediately notify 355th Security Forces (BDOC) at 228-3200/5131 and request assistance. If the Surface Cargo Movements representative determines the cargo load is unsafe or the property has shifted while in transit, immediately notify munitions storage personnel. Report all discrepancies in shipment immediately to the Over, Short and Damage Clerk and complete Standard Form 361, *Transportation Discrepancy Report*, as outlined in DoD 4500.9R, Part II, chapter 209.

8.13.2.7. **(Added)** For airfreight or commercial contract air shipments, notify 355 EMS Munitions Control at 228-8708 of current status and arrival time of aircraft.

8.13.2.8. **(Added)** When notified of a munitions-laden vehicle requiring entry to or exit from DMAFB, Surface Cargo Movements personnel will request BDOC dispatch a unit to open Gate 29B and permit the vehicle to enter or exit.

8.13.2.9. **(Added)** For all outbound shipments, provide packing and crating personnel to block and brace cargo prior to release of the vehicle.

8.13.2.10. **(Added)** Upon notification of an inbound vehicle transporting explosives to DMAFB, Surface Cargo Movements personnel will proceed to Gate 29B for inspection of the vehicle and notify the appropriate personnel. If a delay of 48 hours is expected between when a vehicle arrives and the expected offload operation, the driver may request to drop the trailer inside the MSA. Approval to drop the trailer inside the MSA area rests with 355 Equipment Maintenance Squadron (EMS) Munitions Flight Chief or delegated authority.

8.13.3. **(Added)** Explosives shipments arriving by vehicle outside of normal receiving duty hours will be handled as follows:

8.13.3.1. **(Added)** Surface Cargo Movement personnel will meet the carrier at Gate 29B to determine if the shipment is an early/late consignment. Surface Cargo Movements personnel will immediately inspect the vehicle to verify seal(s), and then make arrangements to move the vehicle to the holding area at the Site 5 railhead on Navajo Road, Bldg 89001.

8.13.3.2. **(Added)** Transportation personnel will remain with the carrier operator inside DMAFB boundaries until all processing has been accomplished. The secure holding area for inbound/outbound base shipments and for carriers requesting early and late consignment is the railhead. When a transient shipment destined for other

than DMAFB arrives and makes a request for secure holding, the carrier will be escorted to the railhead. The carrier will remain with the shipment and maintain responsibility for the shipment at all times.

8.13.3.3. **(Added)** If no discrepancies are found with the vehicle or load, the Surface Cargo Movements representative will ensure that the trailer/dromedary is resealed with seals provided by the carrier or TMO. Surface Cargo Movements personnel will annotate on the commercial bill of lading, ***“Seals broken by Surface Cargo Movements Representative (Name/Organization) (Date/Time) and resealed by (Surface Cargo Movements or carrier representative’s name, as applicable) (Date/Time).”*** Record the new seal number(s).

8.13.3.4. **(Added)** Notify the Command Post at 228-7400 of the munitions arrival and request a munitions storage representative to meet the vehicle at the railhead.

8.13.3.5. **(Added)** Surface Cargo Movements personnel will remain in constant contact with BDOC using wireless phones or radios and will standby until the vehicle is secured inside the MSA or moved to the railhead. Transportation personnel will notify the BDOC upon completion of operations.

8.13.3.6. **(Added)** The designated inspection location for all inbound and outbound explosives shipments by air is the Hot Cargo Pad (HCP) at Taxiway F. NEW limits are defined in **Table 12.2**.

8.13.4. **(Added)** 355 EMS will:

8.13.4.1. **(Added)** For outbound shipments, prepare DD Form 1348-1, *DoD Single Line Item Release/Receipt Document*, or computer-generated facsimile. Ensure certification is accomplished by qualified munitions personnel in the Combat Ammunition System (CAS).

8.13.4.2. **(Added)** Ensure proper documentation/labeling are placed on the outer container and proper markings are on all containers.

8.13.4.3. **(Added)** Ensure DMAFB FES is notified of the explosives shipment departure from the MSA, route of travel, and destination.

8.13.4.4. **(Added)** For inbound shipments, provide assistance as requested if a suspect explosives-laden vehicle is detected.

8.13.4.5. **(Added)** Provide assistance to the Chief of Transportation (355 LRS Commander) in placing commercial carrier in designated holding area when Safe Haven/Refuge has been granted.

8.13.4.6. **(Added)** Prior to issue transactions, ensure all custody or supply point accounts comply with established safety standards for transportation of explosives or ammunition, as outlined in squadron OIs.

8.13.5. **(Added)** 355 SFS will:

8.13.5.1. **(Added)** Deny access to any munitions/explosives-laden vehicles attempting to enter the installation through an entry point other than Gate 29B except during Safe Haven and Safe Haven Refuge situations as identified in the DMAFB Integrated Base Defense Plan 3-10.

8.13.5.2. **(Added)** Redirect munitions/explosives-laden vehicles attempting to enter the installation at another gate to Gate 29B. Owning/using organizations and agencies are responsible for escort of munitions/explosives-laden vehicles while on the installation.

8.13.5.3. **(Added)** Follow Safe Haven procedures IAW the DMAFB Integrated Base Defense Plan 3-10.

8.13.5.4. **(Added)** When notified by Surface Cargo Movements personnel of munitions/explosives-laden vehicles entering or exiting DMAFB, dispatch SFS personnel to open and close Gate 29B.

8.18. The Surface Cargo Movements office publishes and distributes normal duty hours for receiving munitions. During other times, such as weekends and holidays, carriers are not allowed on DMAFB except as approved by the Chief of Transportation or designated representative. When secure holding is officially requested and granted IAW DoD 4500.9 R, transportation personnel may be contacted on a 24-hour basis by calling Command Post at 228-7400. Vehicles will be escorted to the railhead for holding until offload operations can commence.

8.22.1. Egress, Aircrew Flight Equipment (AFE), Weapons, and Electrical/Environmental (E/E) sections may transport mission-essential quantities of 1.4, 1.3, and 1.2.2 munitions in the passenger compartment of GOV's not equipped with a separate cargo compartment as follows:

8.22.1.1. **(Added)** Limit personnel to a maximum of one supervisor, four crew members, and two casualties per vehicle.

8.22.1.2. **(Added)** Ensure live impulse cartridges are only transported in suitable metal containers with foam or materials to prevent item-to-item contact or item-to-container contact. These containers will be marked "**Carts**" and secured to prevent movement within the vehicle.

8.22.1.3. **(Added)** Quantities of impulse cartridges, egress Cartridge Actuated Device/Propellant Actuated Device munitions, life support munitions, and fire extinguisher cartridges being transported will not exceed one shift's usage.

8.22.1.4. **(Added)** Ensure impulse cartridges or other electro-initiated devices are not placed closer than 10 feet to vehicle/hand held radio antennas and placed as far from driver as reasonably possible.

8.22.1.5. **(Added)** Ensure expended impulse cartridges are not stored in the same container as live impulse cartridges.

8.22.1.6. **(Added)** Ensure all occupants are thoroughly familiar with emergency procedures in case of fire or accident.

8.26.3. Placard vehicles and/or tow trailers on all four sides with the highest HC/D of munitions being transported. **EXCEPTION:** Placards are not required when transporting HC/D 1.4 munitions on DMAFB.

8.44. All outbound munitions shipments by commercial vehicle will be blocked and braced prior to moving from the loading location.

9.22.2. 355th Communication Squadron (CS) and AMARG Safety (SE) will provide 355 FW/SEW with radiated energy frequency, wattage, antenna gain, and location for all fixed antennas on DMAFB annually for electromagnetic radiation (EMR). 355 FW/SEW will calculate EMR safety zones for transportation routes and storage locations. 355 FW/SEW will maintain documentation of the annual EMR survey.

9.30.4. All wireless communications devices (modern mobile emitters), including cellular telephones, wireless computer equipment, and two-way radios, must be separated from any electro-explosive device (EED) or weapons system with an installed EED by a minimum of 10 feet, unless the item has been evaluated and permitted to be at a lesser distance by the HQ AFSEC.

10.7.4. Notify ECC at 228-4757 whenever a fire symbol changes on a munitions storage facility. Units will validate the accuracy of their structure's fire symbols with ECC quarterly.

10.7.6.3. All licensed facilities on DMAFB will coordinate with the Fire Prevention office to ensure proper posting of fire symbols on building exteriors.

10.7.7.3. 12-inch fire symbols with noncombustible backings will be used on individual facility doors sited as multi-cubes, or on interior doors and lockers in a licensed facility.

10.8.3. All storage locations on DMAFB that contain any amount of explosives, will be placarded.

10.8.8. Posting fire symbols on the main ramp Combat Aircraft Parking Areas (A-10 CAPA) and (C-130 CAPA) is not required on DMAFB as long as procedures in paragraphs 12.40.8.1-3 are followed.

10.23. A minimum of two fire extinguishers, with a classification of 2A:10BC or greater, are required at any one Ammunition and Explosives (AE) storage location when personnel are present and the structure doors are open to include inventories. During 100% inventories, when all doors in a multi-bay facility are accessed, position fire extinguishers outside of the structure in an accessible location and no more than 50' apart.

11.1.3. 355 FW/SEW will issue all explosives licenses for DMAFB. Host and tenant units will draft and coordinate AF Form 2047 with required agencies prior to submitting to 355 FW/SEW for final approval.

11.5.6. Reduced parking distance criteria for licensed locations will be evaluated and approved by DMAFB FES and 355 FW/SEW on a case-by-case basis. If reduced parking distance is approved based on mission necessity, include the criteria in the remarks section of the AF Form 2047.

11.6. AF Form 2047 will be clearly displayed at the licensed location in the immediate vicinity of the stored munitions.

11.7.7.2. Once approved by the 355 FW/SEW Weapons Safety Manager (WSM), the justification memo will be clearly displayed at the licensed location. This justification memo must accompany the AF Form 2047 during the approval process. Reference the example memo in [Attachment 22](#).

11.8.3. 355 FW/SEW will review each AF Form 2047 in conjunction with the unit's annual weapons safety inspection. For tenant units not inspected by 355 FW/SEW annually, an annual license review will be conducted outside of the inspection process. 355 FW/SEW and responsible unit will maintain documentation of each annual review.

11.11. Licenses issued solely for exercise-use munitions, such as GBS and smoke grenades, will include the following in the remarks section of AF Form 2047 and in the applicable OI or exercise plan: ***“NOT FOR LONG-TERM STORAGE OF MUNITIONS. Munitions will be returned to the munitions storage area at the end of each exercise.”*** Once a license is approved, it may apply to each exercise employing the specified quantities of munitions, provided an annual license review is accomplished. This license is only valid during exercises, and munitions will not be stored at any other times.

12.15.1.28. Prior to coordinating events such as morale runs, and field trips attended by people not related to munitions or explosives taking place inside explosive clear zones, contact 355 FW/SEW at 228-6397/6398 for coordination.

12.40.7. **(Added) Live Ordnance Loading Area (LOLA).** The DMAFB LOLA is sited as a composite North Atlantic Treaty Organization (NATO) revetted Type B (prop) Combat Aircraft Parking Area (CAPA). The LOLA can accommodate up to 12 fighter aircraft at one time for loading HC/D 1.1 ordnance. All assigned or deployed units operating from the DMAFB LOLA, including U.S. Military and NATO forces, will adhere to the following requirements:

12.40.7.1. **(Added)** The using organization's scheduler will coordinate with MOC 72-hours prior to conducting munitions operations in the LOLA. Aircraft owner/user organizations are responsible for providing security of the LOLA ramp when required. Coordinate LOLA security operations with BDOC at 228-3200/5131.

12.40.7.2. **(Added)** The LOLA consists of 12 designated parking spots for fighter aircraft, with spot 1 located nearest the taxiway to the southeast. Whenever possible, aircraft parking spots should be used sequentially from spot 12 to spot 1. The NEWs for the LOLA and LOLA Munitions Holding Area are outlined in **Table 12.1**.

12.40.7.3. **(Added)** Inform MOC of aircraft munitions status as well as start and stop times for live munitions loading operations.

12.40.7.4. **(Added)** Post appropriate fire/hazard warning symbols at the LOLA entrance, and at munitions holding area. Ensure a fire extinguisher is present at each revetment, positioned IAW T.O. 00-25-172, Table 3-1. Notify ECC at 228-4757 and MOC of fire symbol changes start and finish of all LOLA operations. Remove fire warning symbols at the completion of LOLA operations.

12.40.7.5. **(Added)** Munitions-laden trailers may be parked between aircraft only during uploading and downloading operations. Munitions-laden trailers may not remain at the aircraft parking spot longer than required to complete the loading/unloading operation. Munitions-laden trailers will be placed on the LOLA munitions holding area when not being used in a weapons loading operation.

12.40.7.6. **(Added)** When armed or damaged munitions are encountered, stop all activities and declare a ground emergency. Notify MOC at 228-7441 and ensure DMAFB FES, EOD, 355 SFS, and 355 FW/SEW are notified.

12.40.7.7. **(Added)** Explosives-loaded aircraft require monitoring/security at all times by the owning/using organization. During any maintenance operations, personnel must have radio contact with either MOC or DMAFB FES.

Table 12.1. NEWs for LOLA Spots and LOLA MHA

Facility	HD 1.1	HD 1.2.1	HD 1.2.2	HD 1.2.3	HD 1.3	HD 1.4
LOLA01	1,500	510 ≤83	3,000	(04) 3,000 ≤83	3,000	3,000
LOLA02	1,500	510 ≤82	3,000	(04) 3,000 ≤82	3,000	3,000
LOLA03	1,500	510 ≤91	3,000	(05) 3,000 ≤91	3,000	3,000
LOLA04	5,000	2,000 ≤168	3,000	(07) 3,000 ≤168	3,000	3,000
LOLA05	5,000	2,000 ≤219	3,000	(07) 3,000 ≤219	3,000	3,000
LOLA06	5,000	2,000 ≤187	3,000	(07) 3,000 ≤187	3,000	3,000
LOLA07	5,000	2,000 ≤170	3,000	(06) 3,000 ≤170	3,000	3,000
LOLA08	5,000	2,000 ≤163	3,000	(06) 3,000 ≤163	3,000	3,000
LOLA09	5,000	2,000 ≤164	3,000	(05) 3,000 ≤164	3,000	3,000
LOLA10	5,000	2,000 ≤174	3,000	(06) 3,000 ≤174	3,000	3,000
LOLA11	5,000	2,000 ≤194	3,000	(06) 3,000 ≤194	3,000	3,000
LOLA12	5,000	2,000 ≤227	3,000	(07) 3,000 ≤227	3,000	3,000
LOLA MHA	10,000	10,000 >450	10,000	Not Sited	10,000	10,000

12.40.8. **(Added) Combat Aircraft Parking Area (CAPA) Explosives Operations.** The main ramp at DMAFB is the primary CAPA for A-10 aircraft. Three rows of parking spots are designated A2 through A26, B1 through B26, and C1 through C26. The C-130 CAPA is located just to southeast of the A-10 CAPA on the main ramp. NEW limits for the A-10 and C-130 CAPAs are listed in **Table 12.2**.

12.40.8.1. **(Added)** DMAFB FES will have access to the approved local flying schedule listing all aircraft sorties and munitions configurations. DMAFB FES will receive notification of the start and end of each flying day and will be informed of significant updates to the approved flying schedule.

12.40.8.2. **(Added)** DMAFB FES will respond to any emergency on the A-10 CAPA based on the highest hazard class/division (HC/D) present during daily training operations, HC/D 1.2. When HC/D 1.1 munitions are present on the A-10 CAPA, Emergency Control Center (ECC) will receive notification of exact location(s) and aircraft tail numbers(s).

12.40.8.3. **(Added)** DMAFB FES will respond to any emergency on the C-130 CAPA according to the highest approved munitions hazard, HC/D 1.3, based on current explosives site plans.

12.40.8.4. **(Added)** In the event of an emergency on the on the A-10 or C-130 CAPA, ECC will receive immediate notification of the actual HC/D and quantities of munitions present at the response location.

Table 12.2. NEWs for A-10 CAPA and C-130 CAPA

Facility	HD 1.1	HD 1.2.1	HD 1.2.2	HD 1.2.3	HD 1.3	HD 1.4
A2-A26	(04) 10.5	300 <50	1,500	(03) 300 <50	1,500	1,500
B1-B26	(04) 10.5	300 <50	1,500	(03) 300 ≤50	1,500	1,500
C1-C26	(04) 10.5	300 <50	1,500	(03) 300 <50	1,500	1,500
C-130 (All)	0	0	0	0	500	500

12.41.6. **(Added)** Hot Cargo Pad (HCP) Operations.

12.41.6.1. **(Added)** The primary HCP for incoming and outgoing aircraft carrying explosive cargo is located at the end of Taxiway F. In the Hot Pit (HP) area, HP 30 and HP 31 are alternate HCPs but are not capable of holding HC/D 1.1, 1.2.1, 1.2.2, 1.2.3 munitions. NEW limits for the three HCPs are defined in Table 12.3.

12.41.6.2. **(Added)** To maintain QD requirements, compensatory measures are required for the primary HCP at Taxiway F. When this HCP is in use, 355 SFS will close the traffic gate adjacent to Gate 29B (Gate F-35) to restrict vehicle and personnel traffic from the area. 355 SFS will also ensure that barricade is placed across the jogging track adjacent to the perimeter fence to restrict personnel from entering the area. Vehicle and personnel traffic may flow unrestricted once explosive cargo is removed from the area. 355 FW/SEW is the Office of Primary Responsibility (OPR) for these procedures.

12.41.6.3. **(Added)** No other operations will be conducted within a 1,250-foot radius while HCP explosives loading or unloading operations are in progress.

12.41.6.4. **(Added)** Fire extinguishers will be positioned IAW TO 00-25-172, Table 3.1.

12.41.6.5. **(Added)** Post the appropriate fire symbol at the HCP entrance according to the highest explosives class present and notify ECC at 228-4757.

12.41.6.6. **(Added)** Airfield Operations will notify the following agencies prior to all HCP operations and after termination: BDOC at 228-5131, ECC at 228-4757, and 355 FW/SEW at 228-6398/6397 (cell 909-0317).

Table 12.3. NEWs for HCPs

Facility	HD 1.1	HD 1.2.1	HD 1.2.2	HD 1.2.3	HD 1.3	HD 1.4
HCP	(12)30,000	25,000 \geq 450	250,000	(12)250,000 \leq 450	500,000	500,000
HP 30	NONE	NONE	25,000	NONE	20,000	500,000
HP 31	NONE	NONE	25,000	NONE	20,000	500,000

12.45. Taxiways A1 and A6 are the primary arm/de-arm areas for DMAFB. Taxiway A4 is an alternate arm/de-arm area. These areas are depicted on the D-8 Installation Explosives Map.

12.45.1. **(Added)** 162nd ACA Detachment will quick-check and arm at the alert facility IAW procedures outlined in DMAFBI 11-250. 162nd ACA Detachment are allowed to perform EOR de-arm procedures at the Alert CAPA. In the event of a weapons system malfunction or declared In Flight Emergency (IFE), 162nd ACA Detachment aircraft will taxi to appropriate EOR location.

12.47. During flight line delivery and retrieval of aircraft munitions, the preferred method is to use a munitions trailer throughout the operation. However, to meet mission requirements, BDU practice bombs, chaff/flare modules, small arms ammunition, and impulse carts required for a single aircraft load may be temporarily placed at the aircraft parking spot(not to exceed 8 hours) in a designated location to await aircraft loading or pick-up by 355 EMS Line Delivery. Impulse carts and small arms ammunition must be stored in an approved container prior to placing on the ground. All other aircraft munitions will be directly loaded from and downloaded to the munitions trailer.

12.64.1. Every effort will be made to contact the responsible activity through Command Post or MOC using the applicable standby rosters. 355 SFS will be notified of the appropriate risk category for incoming munitions. All vehicles transporting risk category munitions will be parked at the munitions railhead. Unless other arrangements are coordinated, vehicle operators will be responsible for security of munitions. 355 SFS will accomplish random checks of the MSA railhead area.

14.4. 355 FW/SEW will maintain facility information and usage in the Explosive Safety Siting (ESS) database to validate future explosives site planning criteria. 355 FW/SEW will coordinate with 355 CES for a quarterly base map update, including planned construction projects and future facility sites, utilities, roads, and other infrastructure.

14.4.1. **(Added)** 355 FW/SEW requires accurate map coordinates to properly evaluate construction activities for explosives siting considerations. Coordinate through 355 FW/SEW during the design stage of all building projects, including new construction or alteration of existing facilities and infrastructure, for implementation into the ESS database. This coordination shall provide information detailing the purpose of the construction and a map of the proposed location.

14.4.2. **(Added)** 355 FW/SEW will review design requests to determine if the construction location and intent complies with safety instructions. 355 FW/SEW will outline necessary restrictions or provisions required prior to construction of the facility.

14.4.3. **(Added)** New construction within existing DMAFB explosives arcs or construction of explosives storage/operating facilities shall not begin until 355 FW/SEW receives an approved explosives site plan from the Department of Defense Explosives Safety Board (DDESB) or a waiver from the Secretary of the Air Force.

14.14.2. The 355th Fighter Wing is the host wing on DMAFB and 355 FW/SEW will process all explosives site plans. All tenant unit Weapons Safety offices will submit ESPs to 355 FW/SEW for coordination.

JAMES P. MEGER, Colonel, USAF
Commander, 355th Fighter Wing

Attachment 1**GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION*****References***

AFMAN91-201, *Explosive Safety Standards*, 12 Jan 2011

AFMAN91-201 ACCSUP_I, *Explosive Safety Standards*, 3 January 2013

AFMAN 24-204_IP, *Preparing Hazardous Materials for Military Air Shipments*, 3 December 2012

AFI32-1065, *Grounding Systems*, 12 January 2015

AFI91-202, *US Air Force Mishap Prevention Program*, 24 June 2015

AFI91-202 ACCSUP, *US Air Force Mishap Prevention Program*, 9 October 2012 Title 49, Code of Federal Regulations, *Transportation*, 1 October 2010

DoD 6055.9 STD, *DoD Ammunition and Explosives Safety Standards*, 29 February 2008 DoD 4500.9 R, *Defense Transportation Regulation*, 1 March 2003

Adopted Forms

AF Form 847, *Recommendation for Change of Publication*

AF Form 2047, *Explosives Facility License*

AF Form 2293, *USAF Motor Vehicle Operator Identification Card*

DD Form 836, *Dangerous Goods Shipping Paper/Declaration and Emergency Response Information for Hazardous Materials Transported by Government Vehicles*

DD Form 626, *Motor Vehicle Inspection (Transporting Hazardous Materials)*

DD 1149, *Requisition/Invoice Shipping Document*

DD Form 1348-1, *DoD Single Line Item Release/Receipt Document*

DD Form 2890, *DoD Multi Dangerous Goods Declaration*

SF 361, *Transportation Discrepancy Report*

T.O. 00-25-172, *Ground Servicing of Aircrafts and Static Grounding/Bonding*

Abbreviations and Acronyms

ADWSR—Additional Duty Weapons Safety Representative

AFE—Aircrew Flight Equipment

AFI—Air Force Instruction

AMARG—Aerospace Maintenance and Regeneration Group

ANG—Air National Guard

ASA—Air Sovereignty Alert

BDU—Battle Dress Uniform

CAS—Combat Ammunition System

BDOC—Base Defense Operations Center

DD—Department of Defense (as used on forms) **DDESB**—Department of Defense Explosive Safety Board

DMAFB—Davis-Monthan Air Force Base

DoE—Department of Energy

ECC—Emergency Communication Center (Previously Fire Alarm Communication Center, FACC)

E/E—Electrical and Environmental

EED—Electro-Explosive Device

ESP—Explosives Site Plan

ESS—Explosives Safety Siting

FES—Fire Emergency Services

GBS—Ground Burst Simulator

HAMS—Holding Area, Munitions Storage

HAZMAT—Hazardous Material

HC/D—Hazard Class/Division

HCP—Hot Cargo Pad

IFE—In Flight Emergency

LOLA—Live Ordnance Loading Area

LRS—Logistics Readiness Squadron

MOC—Maintenance Operations Center

MHA—Munitions Holding Area

NATO—North Atlantic Treaty Organization

NEW—Net Explosive Weight

OIC—Officer in Control

OPR—Office of Primary Responsibility

OSB—Operation Snowbird

SPI—Special Packaging Instruction

WSM—Weapons Safety Manager

Attachment 9 (Added)

EXAMPLE JUSTIFICATION LETTER FOR LICENSED FACILITIES

Figure A9.1. Example Justification Letter For Licensed Facilities

****Note** Use Applicable Unit Letterhead**

MEMORANDUM FOR 355 FW/SEW

FROM: (Unit)/CC

SUBJECT: (Unit) Explosive License Justification

1. This letter outlines mission essential quantities of munitions required to support the (Unit) mission and serves to justify the requirement of an explosive facility license IAW AFMAN 91-201 ACCSUP Para. 11.7.7.2.

NOTE: State mission requirements in specific detail that drive why the unit is required to store munitions within the facility. Any other data that may serve as justification (directly or indirectly, major or minor) for the existence of the explosive storage facility may aid your unit in meeting this justification. List all items listed on the AF Form 2047 below. List all applicable Technical Order, Air Force Instruction, and AFCAT 21-209 references.

EXAMPLE (Paragraph 2):

2. Explosive licensed quantities are based on base defense, exercises, evaluations, competitions and requirements outlined in AFCAT 21-209, Wing Installation Security Plan and AFI 31-101. The quantity listed on the license allows the 355th Security Forces Squadron to meet minimum mission requirements. Specific munitions requirements are as follows:

a. Explosive CTG, 5.56MM, M193, 1305-00-926-3930, 8,000 each is required to conduct exercises and evaluations. Squad exercises with 15 or more participant's use up to 500 rounds per exercise period. The extra 500 will allow training variations. Items support Security Forces training/exercises, they are only allowed in the armory for the duration of the exercise, 5 duty days prior and after.

b. Kit, UWARS, 1377-01-394-5663, 10 each are required for maintenance replacement on survival kits, 4 per week. The workload drives up to 4 kits per week. This quantity is sufficient to sustain workflow for maintenance replacement requirements until more items can be re-supplied. REF: T.O. 14S1-11-3 and T.O. 11P12-15-7.

c. Grenade, Hand, Smoke Red, GREEN, 1330-00-289-6852, 20 each are required to support simulated attack scenarios during Operational Readiness Exercise and Emergency Management Exercise operations only. Munitions will be picked up from the Munitions Storage Area immediately prior to the beginning of the exercise. Serviceable munitions and expenditures will be turned-in to MSA for permanent storage immediately upon ENDEX of exercise.

d. Cartridge, Impulse, ARD-863, 1377-01-369-2492, 900 each are required for arming weapons bomb racks for loaded stores in support of three A-10C flying squadrons. 858 impulse cartridges are required for arming 11 weapons stations on 78 aircraft. 42 impulse cartridges are required to replace unserviceable or expended impulse cartridges as needed.

3. If you have any questions or comments, please contact (Unit Representative) at 228-XXXX.

UNIT CC (NAME), RANK, USAF
Commander